

FIG. 1

EXAMPLE OF DVD-R IN WHICH
PRE-PIT IS FORMED ON LAND TRACK

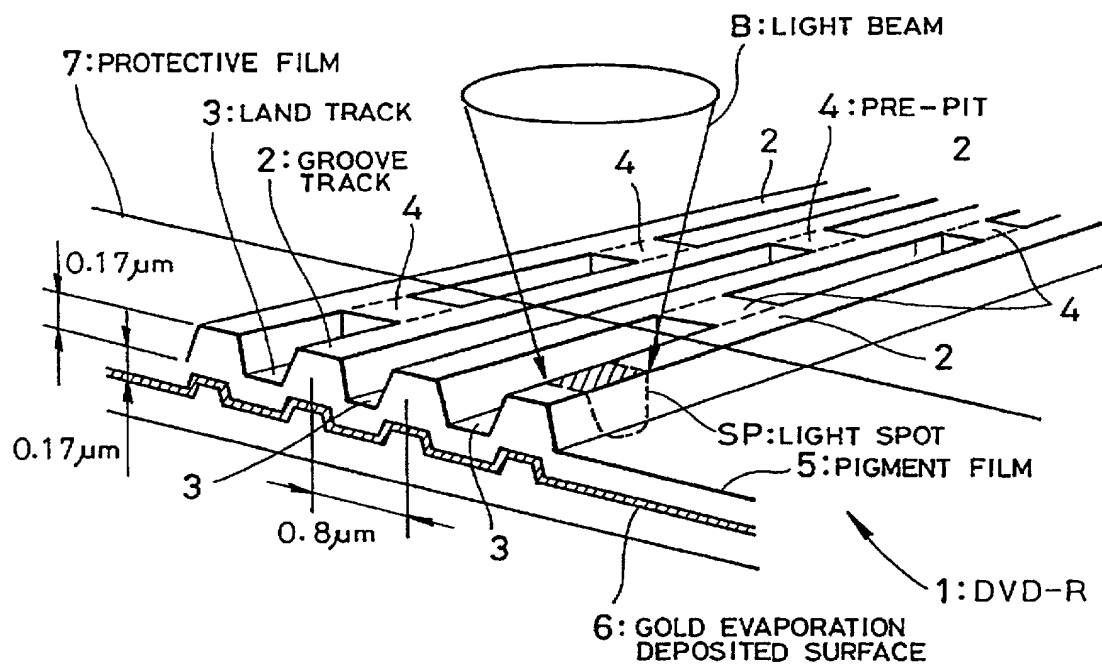


FIG. 2

RECORDING FORMAT OF
PRE-INFORMATION OR
RECORDING INFORMATION

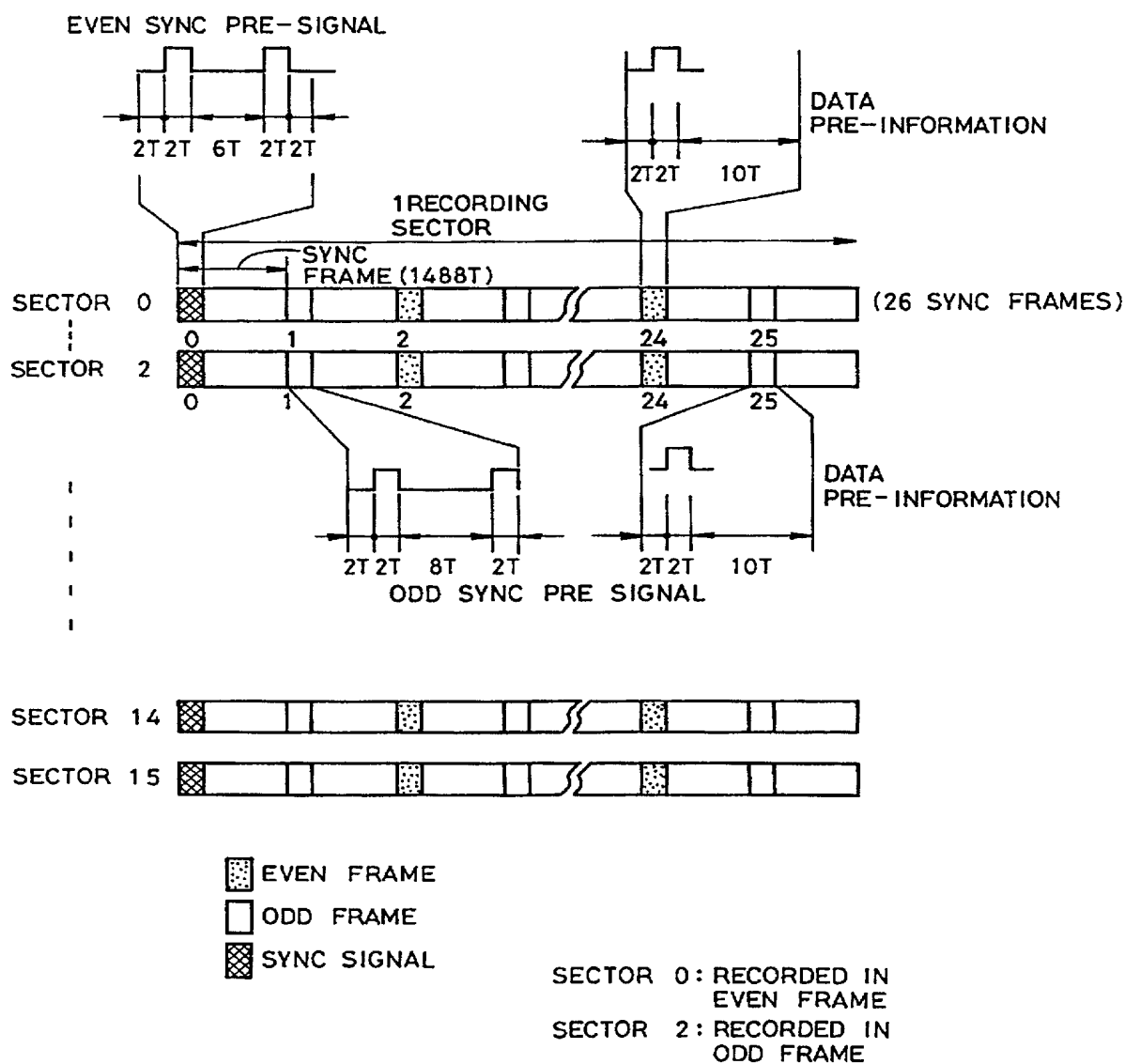
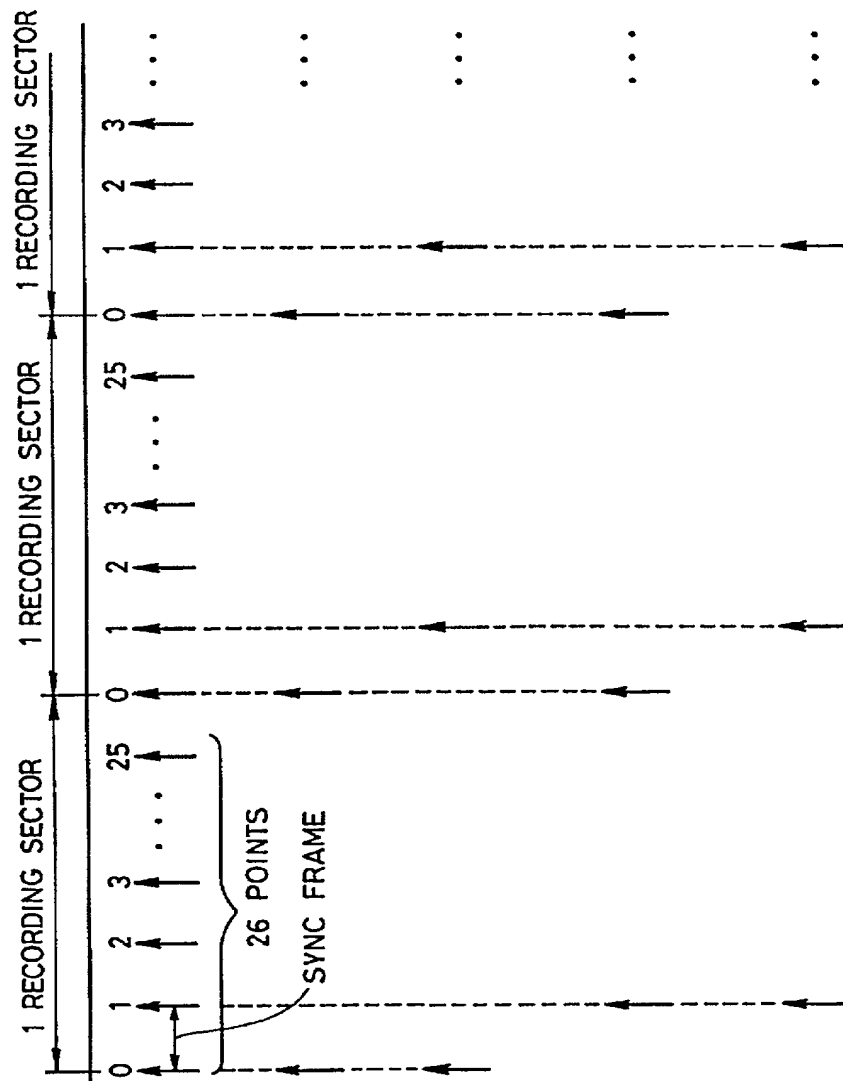


FIG. 3

DETECTION PATTERN OF
SYNC PRE SIGNAL



RECORDING INFORMATION

SYNC PRE-SIGNAL POSITION

SYNC PRE-SIGNAL POSITION
(IN THE CASE OF CONTINUOUS
EVEN FRAME) (PATTERN 1)

SYNC PRE-SIGNAL POSITION
(IN THE CASE OF CHANGING
FROM EVEN FRAME TO ODD
FRAME) (PATTERN 2)

SYNC PRE-SIGNAL POSITION
(IN THE CASE OF CHANGING
FROM ODD FRAME TO EVEN
FRAME) (PATTERN 3)

SYNC PRE-SIGNAL POSITION
(IN THE CASE OF CONTINUOUS
ODD FRAME) (PATTERN 4)

FIG. 4

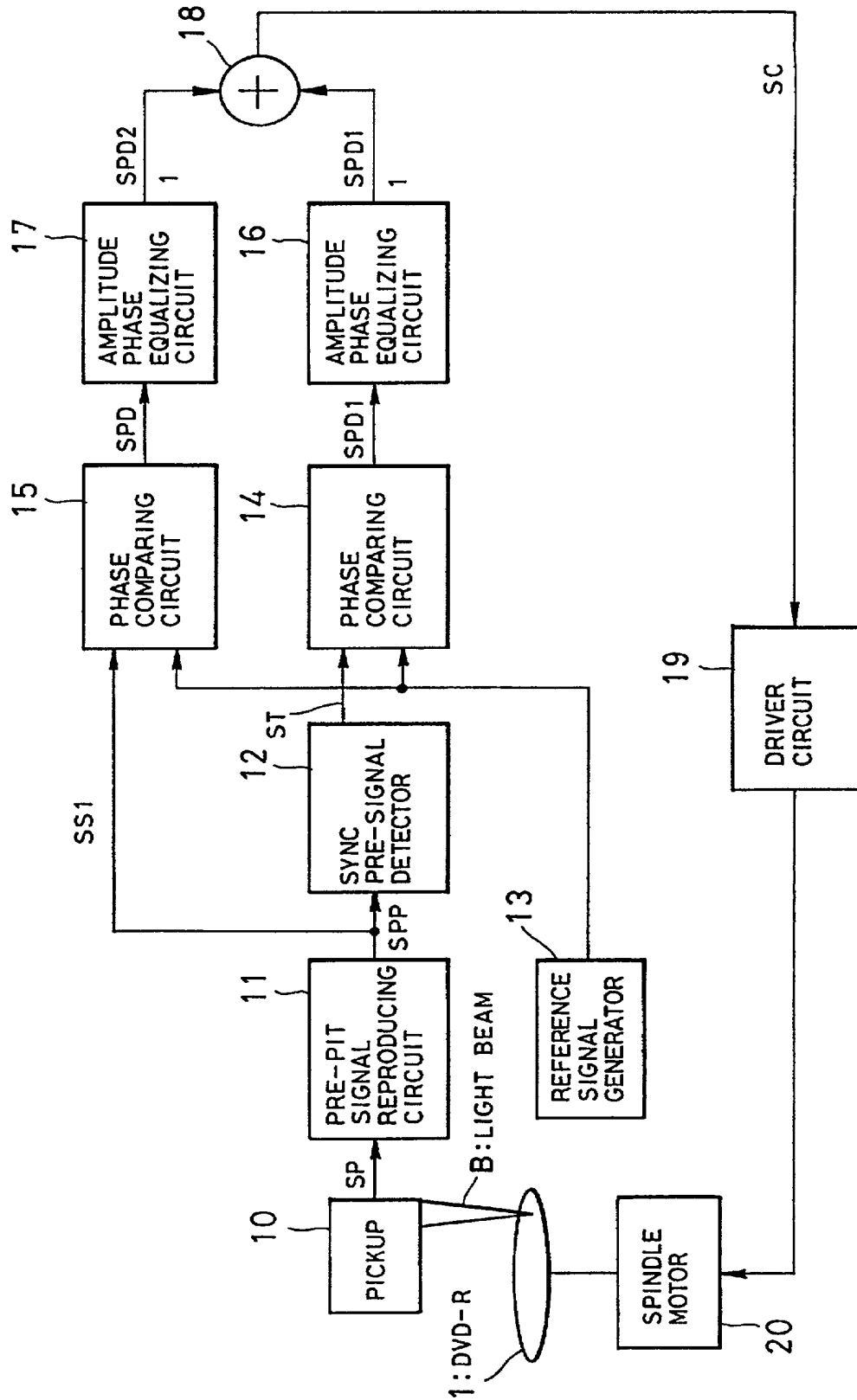


FIG. 5

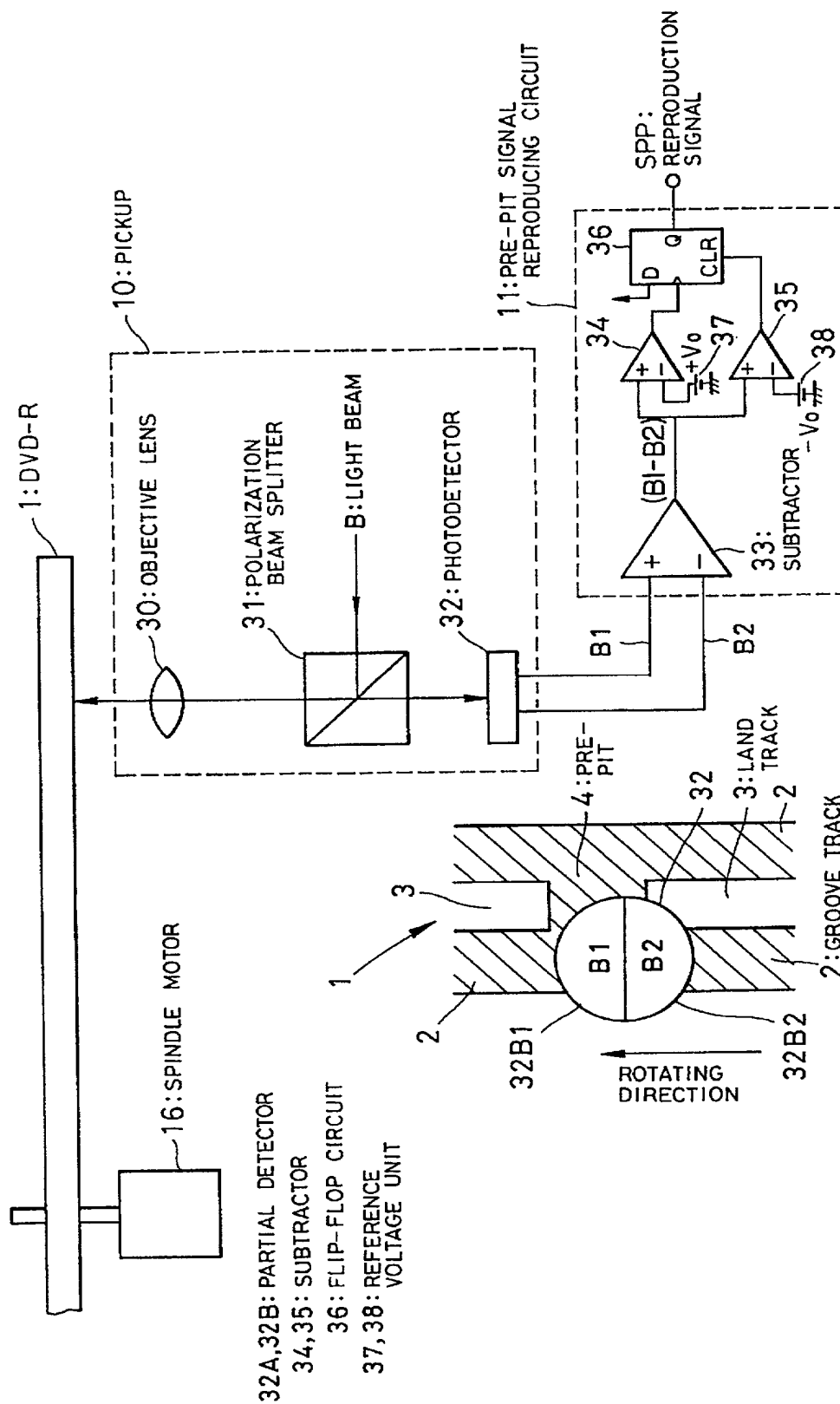
SCHEMATIC CONSTRUCTION OF PICKUP AND PRE-PIT
SIGNAL GENERATOR OF EMBODIMENT

FIG. 6A

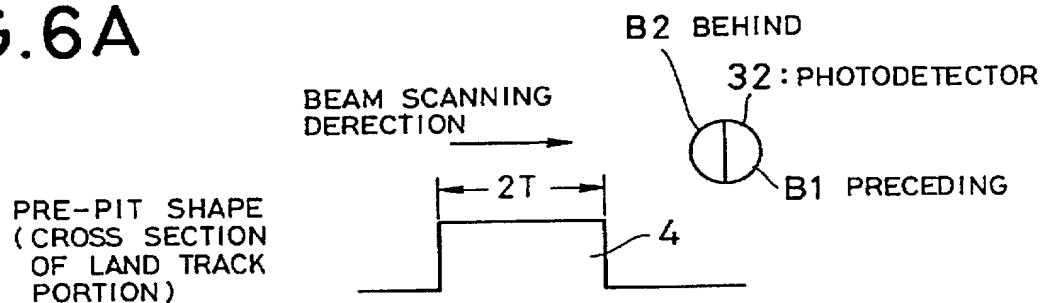


FIG. 6B

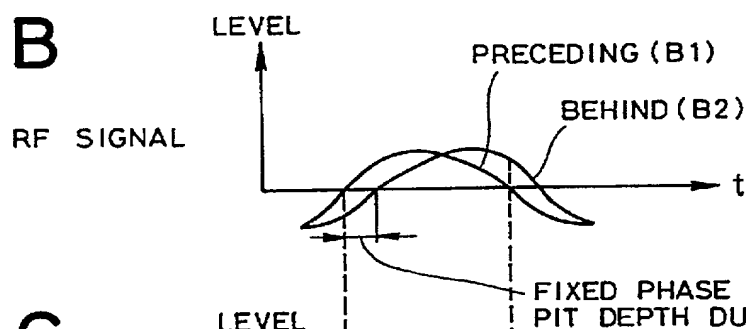


FIG. 6C

TANGENTIAL AND
PUSH-PULL SIGNAL
(-)

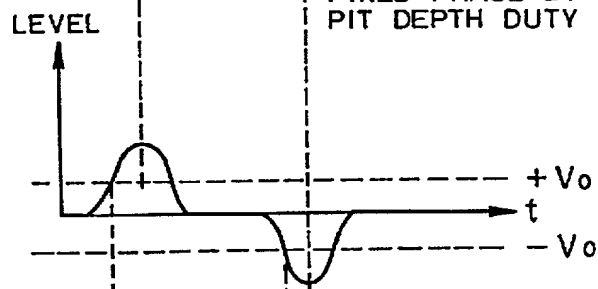


FIG. 6D

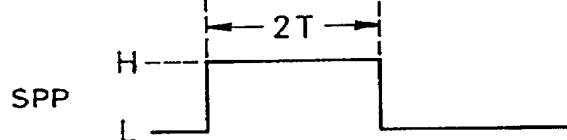


FIG. 7

PHASE COMPARING CIRCUIT 14

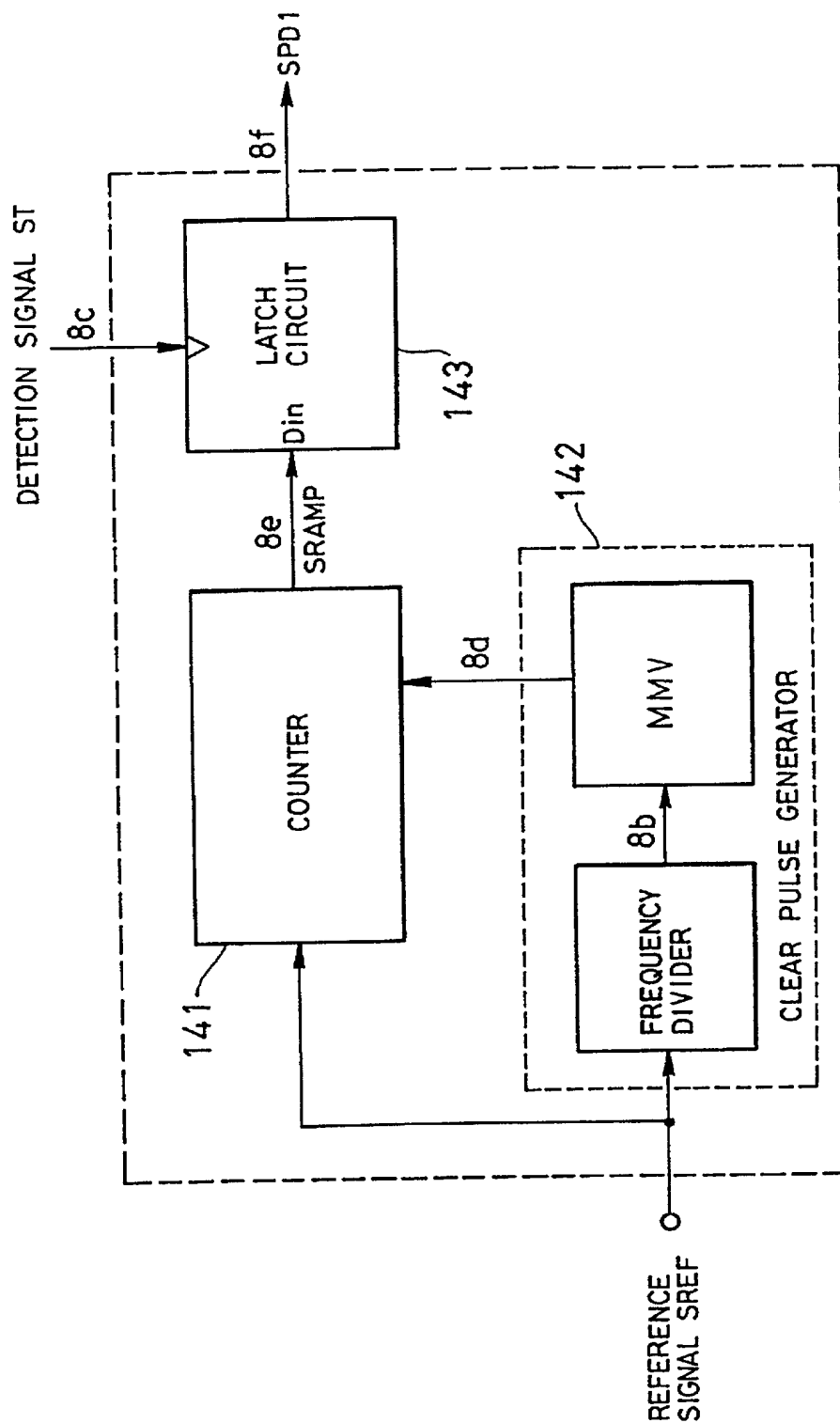
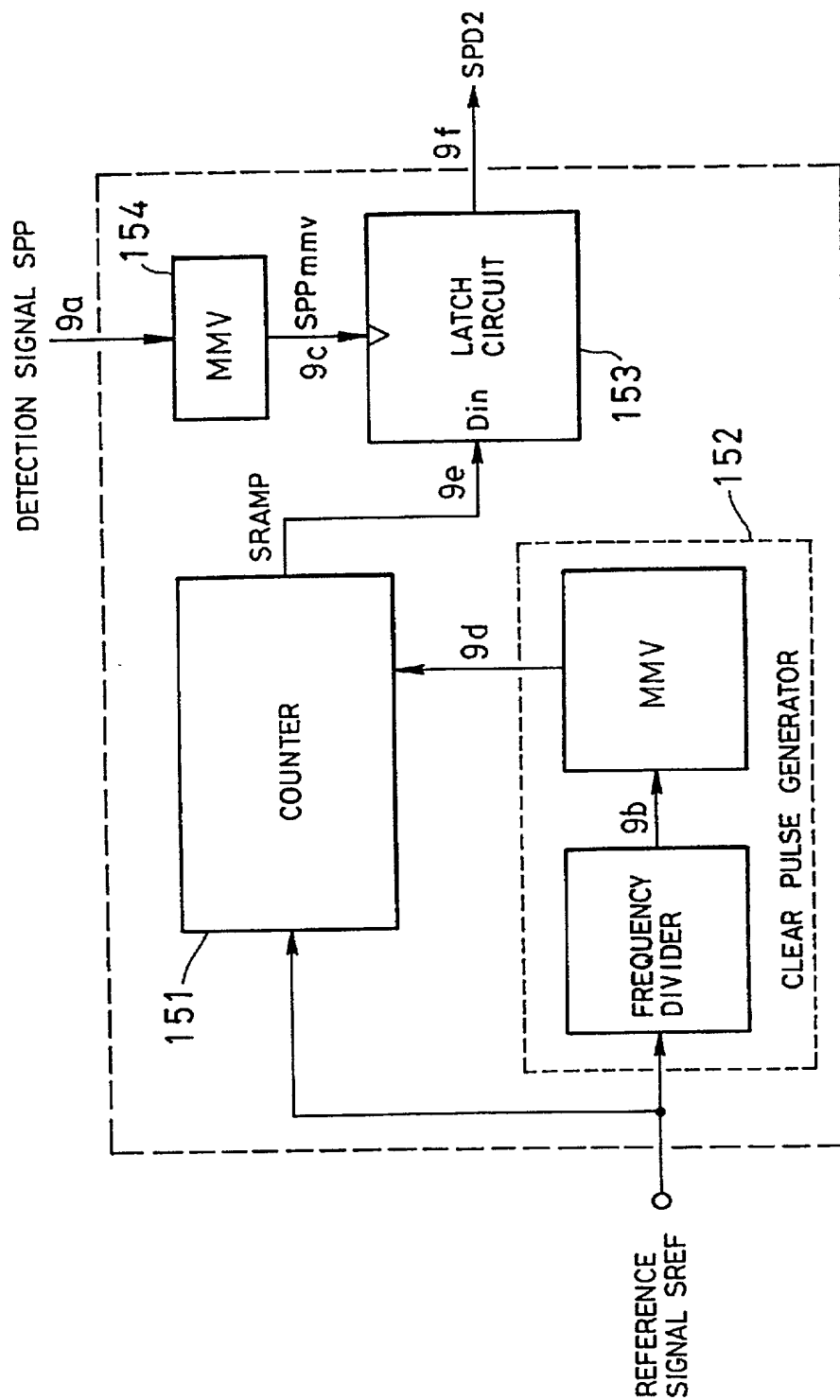
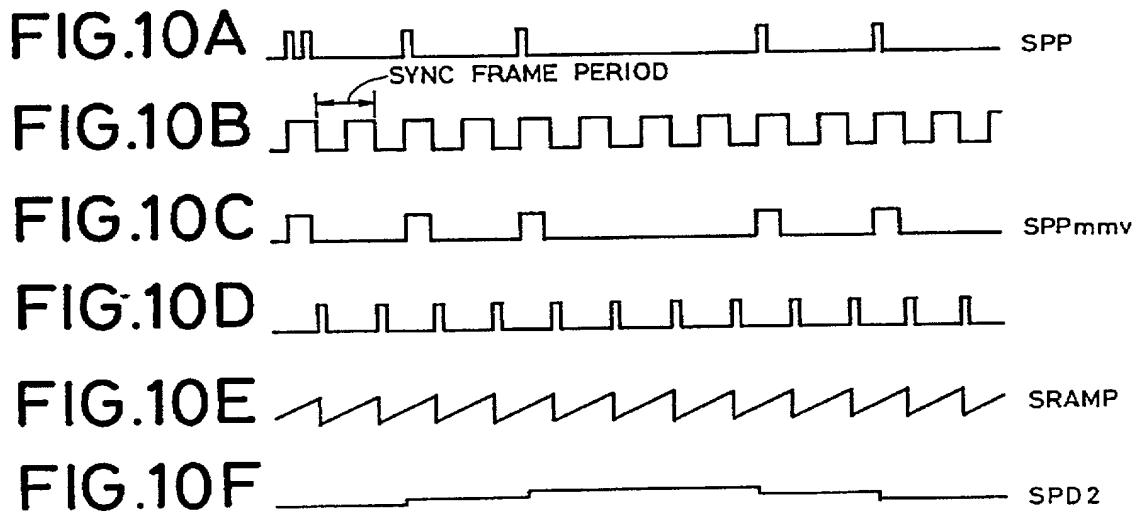
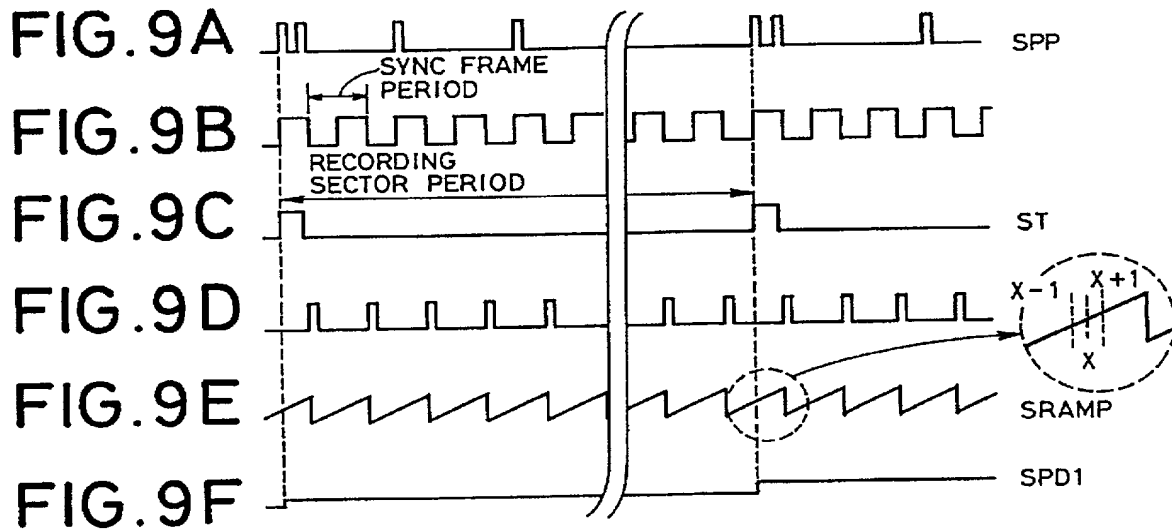


FIG. 8

PHASE COMPARING CIRCUIT 15





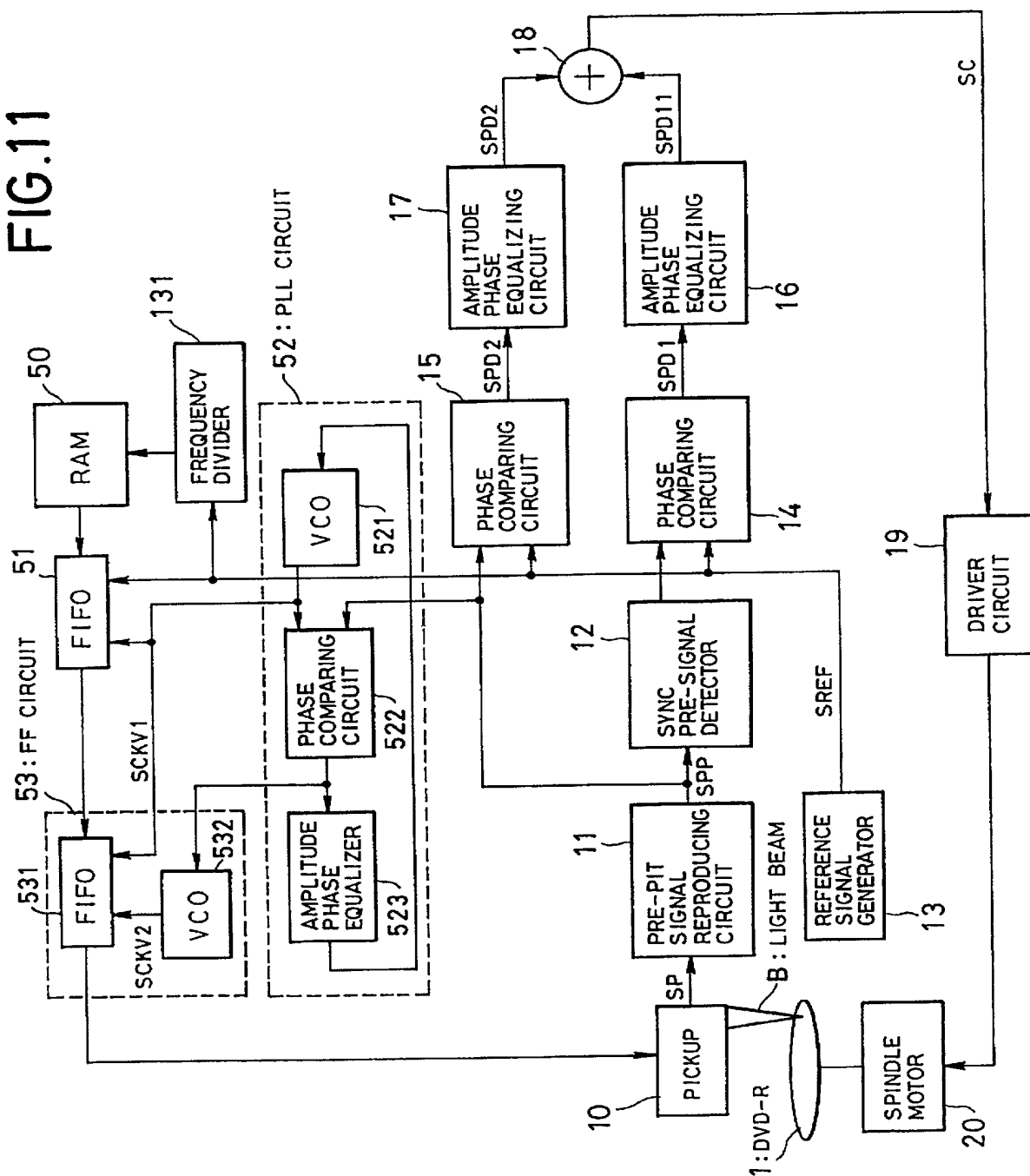
[illegible]

FIG. 12

PHASE COMPARING CIRCUIT 522

